

Claims

- [c1] What is claimed is:
- 1.A reticle transferring support comprising:
- a supporting base;
- a plurality of braces installed on the supporting base for supporting a reticle; and
- a plurality of holders installed on the fringe of the supporting base for fixing the reticle;
- wherein an inner part of the holders automatically align the reticle to prevent horizontal shifting.
- [c2] 2.The reticle transferring support of claim 1 wherein the inner part of the holders is an inclined plane.
- [c3] 3.The reticle transferring support of claim 1 wherein the inner part of the holders is a curved surface.
- [c4] 4.The reticle transferring support of claim 1 wherein the braces are spheroidic structures such that the contact area of the reticle and the braces is reduced.
- [c5] 5.The reticle transferring support of claim 1 wherein the material of the braces includes plastic.
- [c6] 6.The reticle transferring support of claim 1 wherein the braces are at the corners of the supporting base, and their positions are adjustable so as to avoid contacting a bar code area and a

vacuum adsorption area of the reticle.

[c7] 7.The reticle transferring support of claim 1 wherein the reticle transferring support is installed on a load port of a reticle stocker, and the reticle stocker comprises a robot arm to carry the reticle from the reticle transferring support to a SMIF pod.

[c8] 8.A reticle transferring method comprising:
placing a reticle transferring support and a SMIF (standard mechanical interface) pod on a load port of a reticle stocker;
utilizing a reticle clip to place a reticle into the reticle transferring support;
utilizing a robot arm installed in the reticle stocker to carry the reticle from the reticle transferring support; and
utilizing the robot arm to place the reticle into the SMIF pod.

[c9] 9.The method of claim 8 wherein the reticle transferring support includes:
a supporting base;
a plurality of braces installed on the supporting base for supporting the reticle; and
a plurality of holders installed on the fringe of the supporting base for fixing the reticle.

[c10] 10.The method of claim 8 further comprising steps of utilizing the reticle stocker to open and to close the SMIF pod.

[c11] 11.The method of claim 8 further comprising a step of utilizing

the robot arm to carry the reticle from the SMIF pod back to the retile transferring support.